PHETIC SKYSCRAPERS

50 Broadway.

The Changing Skylina

New York's skyline was broken in

1897 by the American Surety Building, with its twenty-one stories rising 312 feet above the street. It
enjoyed this rare altitude in lone
grandeur until it was outreached by
the Park Row building with twentyits stories. oadway.
The Cha

onter States and Capada, is the most recent significant contribution to the usefulness of steel.

Since the open hearth furnace came into general use it has been generally recognized that structural steel was capable of doing more work than was being given it in engineers' specifications. Investigating the possibility for effecting appreciable economics in steel construction, the Institute determined that the basic unit stress of 16,000 pounds per square inch, which was adopted as a working stress by the mills about 1887, was entirely too low. It was determined that the old milt, adopted when steel was produced by the Bessemer process, could easily and safely be increased to 18,000 pounds, and that through a standard specification other appreciable economics could be effected without sacrificing the smallest degree of safety.

Movement Meets Favor Such a departure from the established practice of more than thirty

vertising, gratification of vanity or what you will—it is the results that the count. And those greatly, painting above the 260 feet of main building below epiture against alsy, furnish the great part of the gr

Wider Use of Steel Wider Use of Steel

Structural steel is not to be considered as something appertaining solely to the skyscraper. Nor is it confined to business and industrial construction. Those in closest touch with the trend of building forecast a very extensive use of steel in research. a very extensive use of steel in res-idences and other small buildings idences and other small buildings within a comparatively short time, This tendency is being hastened by the increasing price of lumber and the agitation for stringent forest conservation policies. Steel joists are already attaining considerable popularity for first floors of residences and apartments. Metal lath has won an impregnable position. It is not at all improbable that the next step in residential construction may be steel frame throughout, wood being employed in the decorative poring employed in the decorative por-tions, such as inside trim, floors, doors, blinds, and outside trim, and possibly weatherboarding where brick, concrete or stucco are not used. This does not mean that the use of wood is going to decline in the aggregate. It does point the way, however, to a means of so con-serving and intelligently using wood that there will be always a supply adequate to meet every building

America's skyscrapers are America's skyscrapers are something more than monuments to business and symbols of progress. They are prophets—forecasting less spectacular use of steel, but uses which will be directly shared by the farmer in the remotest homestead, the village dweller and the owner of the palatial city or suburban residence.

The new day of steel is dawning.



